

NETWORK ADAPTER WITH EMBEDDED DEEP PACKET PROCESSING**ABSTRACT**

A network interface device includes host interface logic, arranged to receive from a host processor a frame 5 of outgoing data that includes outgoing header information and outgoing payload data, and to separate the header information from the payload data. A transmit protocol processor is coupled to read and process the outgoing header information from the outgoing header 10 memory so as to generate at least one outgoing packet header in accordance with a predetermined network protocol. Transmit logic is coupled to receive and associate the at least one outgoing packet header with the outgoing payload data from the outgoing data memory, so as to generate at least one outgoing data packet for 15 transmission over a network in accordance with the protocol.